

EUROPEAN CURRICULUM VITAE FORMAT



Name GRIGORE
Surname DAMIAN
Actual position FULL PROFESSOR, PHD
Address "Babes-Bolyai" University, Str.M. Kogalniceanu nr.1, Cluj-Napoca,
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Nationality Romanian
Place and date of birth Brusturi, jud. Neamt, 16 march 1957

WORK EXPERIENCE

- Dates (from – to) **1 OCTOBER 1991 - TODAY**
- Name and address of employer "Babes-Bolyai" University, Faculty of Physics, Department of Biomedical Physics, M. Kogalniceanu 1A , RO-400084 Cluj-Napoca, Romania
- Type of business or sector Higher education and research
- Occupation or position held 1991 – 1997 – assistant professor;
1997 – 2003 – lecturer;
2003 – 2006 associate professor
2006 – present – full professor, PhD supervisor
- Main activities and responsibilities Teaching, research and student supervised
- Dates (from – to) **15 JUNE 1987-1 OCTOBER 1991**
- Name and address of employer National Institute for R&D for Isotopic and Molecular Technology, Cluj-Napoca, Romania
- Type of business or sector Research
- Occupation or position held Researcher
- Main activities and responsibilities Research
- Dates (from – to) **31 AUGUST 1982 - 15 JUNE 1987**
- Name and address of employer Institute of Nuclear Research, Pitesti, Romania
- Type of business or sector Research
- Occupation or position held Researcher
- Main activities and responsibilities Research

EDUCATION AND TRAINING

- Dates (from – to) October 1992 – February 1997
- Name and type of organisation providing education and training "Babes-Bolyai" University, Faculty of Physics
- Principal subjects/occupational skills covered *Molecular physics/ biophysics /EPR and FT-IR spectroscopy*
 - the effect of pharmaceutical stress testing (sterilization, oxidation and photolysis) on the drug substance and foods (free radicals formation, identification and determination of their structure).

- Title of qualification awarded
 - the conformational changes of secondary structure of proteins in different biochemical conditions and lyophilizations.
 - utilization of spin labels and spin trap in the study of biological processes
 - free radicals in environment and biological, biomedical systems and their effects
- Level in national classification (if appropriate)
 - Dates (from – to)
- Name and type of organisation providing education and training
- Principal subjects/occupational skills covered
- Title of qualification awarded
- Level in national classification (if appropriate)
 - Dates (from – to)
- Name and type of organisation providing education and training
- Principal subjects/occupational skills covered
- Title of qualification awarded
- Level in national classification (if appropriate)
 - Dates (from – to)
- Name and type of organisation providing education and training
- Principal subjects/occupational skills covered
- Title of qualification awarded
- Level in national classification (if appropriate)

PhD in Physics,(1997), Title of the Ph.D thesis: "Study of the structure and dynamics of some molecular complexes adsorbed on porous surfaces"

Postgraduated

September 1977 – June 1981

University of Bucharest, Faculty of Physics, Romania

Physics

Physicist

University Graduated(BS)

September 1981 – June 1982

University of Bucharest, Faculty of Physics, Romania

Nuclear Physics

Nuclear Physicist

University Postgraduated (M.Sc.)

September 1972 – June 1976

"Stefan cel Mare" High School, Tg.Neamt, Neamt, Romania

Mathematics and Physics

High school diploma

High school graduated

PERSONAL SKILLS AND COMPETENCES

Acquired in the course of life and career but not necessarily covered by formal certificates and diplomas.

MOTHER TONGUE

ROMANIAN

OTHER LANGUAGES

- Reading skills
- Writing skills
- Verbal skills

ENGLISH

Good
Good
Basic

FRENCH

- Reading skills
- Writing skills
- Verbal skills

Good
Good
Basic

**SOCIAL SKILLS
AND COMPETENCES**

Living and working with other people, in multicultural environments, in positions where communication is important and situations where teamwork is essential (for example culture and sports), etc.

I have colleagues which I work everyday, and more students and PhD students supervised. In this position communication and teamwork is very important and essential

**ORGANISATIONAL SKILLS
AND COMPETENCES**

Coordination and administration of people, projects and budgets; at work, in voluntary work (for example culture and sports) and at home, etc.

- Director of *Free Radicals Research Center (FRRC)* from "Babes-Bolyai" University
- Expert evaluator for research project funding by Romanian National Research Council (CNCS) www.experti-cdi.ro
- Member of National Register of ARACIS Evaluators (http://pfe.aracis.ro/inscriere/registru/lista_comisii/)
- President of Cluj branch of Romanian Physical Society

**TECHNICAL SKILLS
AND COMPETENCES**

With computers, specific kinds of equipment, machinery, etc.

Most of my work is reaserch, so this implies reaserch on internet and correspondence by e-mail. My activity also implies technical skills with computers, such as text proccesing, databases, computer simulations, spreadsheet.

**ARTISTIC SKILLS
AND COMPETENCES**

Music, writing, design, etc.

Fine arts. I have some exhibition

**OTHER SKILLS
AND COMPETENCES**

Competences not mentioned above.

DRIVING LICENCE(S)

Yes

**ADDITIONAL INFORMATION
ANNEXES**

Selected list of publications



SELECTED LIST OF PUBLICATIONS

A) Books (in romanian)

1. Grigore Damian, Curs de fizica nucleara (Nuclear Physics Course), Ed. University Babes-Bolyai, Cluj-Napoca, 2009
2. Grigore Damian "Surse de radiatii nucleare" (Sources of nuclear radiations), Ed. Casa Cartii de Stiinta, Cluj-Napoca 2005
3. Grigore.Damian "Reactii nucleare. Aplicatii analitice" (Nuclear reactions. Analytical applications), Ed. University Babes-Bolyai, Cluj-Napoca, 2003
4. G.Damian, V.Miclaus "Radicali Nitroxidici" (Nitroxide Radicals) Ed. EFES, Cluj-Napoca 2001
5. Grigore Damian, "Procese moleculare de adsorbție pe suprafete" (Molecular procesess of adsorption on surfaces), Ed. University Babes-Bolyai, Cluj-Napoca, 2000

B) Articles in journals / contributions

1. A. Simion , S. Simon, C. Filip , M. Mure şan-Pop , A. Vulpoi , D.M. Petri şor , G. Damian , M. Vasilescu , M. Todea, Local structural effects of Gd³⁺ ions incorporation in shell of nanostructured silica core – alumina rich shell microspheres, Journal of Molecular Structure 1284 (2023), <https://doi.org/10.1016/j.molstruc.2023.135381>
2. Cristian Lujerdean, Marius Zahan, Daniel Severus Dezmirean, Razvan Stefan, Dorina Simedru, Grigore Damian and Nicoleta Simona Vedeanu, In Vitro Studies Demonstrate Antitumor Activity of Vanadium Ions from a CaO-P2O5-CaF2:V2O5 Glass System in Human Cancer Cell Lines A375, A2780, and Caco-2, Int. J. Mol. Sci. **2023**, 24, 1149. <https://doi.org/10.3390/ijms24021149>
3. Vlad Bîrlea, Dina Mariana Petrişor, Grigore Damian, Effect of gamma radiation on some dosimetric interest compounds: an epr study, STUDIA UBB CHEMIA, LXVII, 3, **2022** (p. 109-116), DOI:10.24193/subbchem.2022.3.08
4. Nicoleta Simona Vedeanu, Cristian Lujerdean, Marius Zăhan, Daniel Severus Dezmirean, Lucian Barbu-Tudoran, Grigore Damian, Răzvan Ştefan, Synthesis and Structural Characterization of CaO-P2O5-CaF:CuO Glasses with Antitumoral Effect on Skin Cancer Cells, Materials, 15, 1526, **2022**, <https://doi.org/10.3390/ma15041526>
5. M. Todea, V. Simon, M. Muresan-Pop, A. Vulpoi, M.M. Rusu, A. Simion, M. Vasilescu, G. Damian, D.M. Petrisor, S. Simon, Silica-based microspheres with aluminum-iron oxide shell for diagnosis and cancer treatment, Journal of Molecular Structure Volume 1246, 131149, 2021, <https://doi.org/10.1016/j.molstruc.2021.131149>
7. D.M. Petrişor, G.Damian, S. Simon, EPR testing of organic versus conventional musaceae fruits, Studia Universitatis Babes-Bolyai, Physica, Vol. 65 Issue 1-2, p49-56, 2020
8. Silaghi-Dumitrescu, R., Gruian, C., Puscas, C., Simon, A., Fisher-Fodor, E.c Toma, V.A., Farcas, A., Roman, I., Scurtu, V.-F., Attia, A.A.A., Damian, G. , Spin labelled hemoglobin-based oxygen carriers (Hboc): Preparation and evaluation of in vivo / in vitro stability, Studia Universitatis Babes-Bolyai Chemia, 65(2), pp. 121-132, 2020
9. Augustin C. Mot ,Cristina Coman,Niculina Hadade,Grigore Damian,Radu Silaghi-Dumitrescu,Hendrik Heering, "Yellow" laccase from Sclerotinia sclerotiorum is a blue laccase that enhances its substrate affinity by forming a reversible tyrosyl-product adduct, PLOS ONE | <https://doi.org/10.1371/journal.pone.0225530>, January 21, 2020
10. Mot, A.C., Bischin, C., Damian, G., Attia, A.A.A., Gal, E., Dina, N., Leopold, N., Silaghi-Dumitrescu, R., Fe(III) – Sulfide interaction in globins: Characterization and quest for a putative Fe(IV)-sulfide species, Journal of Inorganic Biochemistry, Volume 179, February 2018, Pages 32-39
11. Vlad Al. Tomaa, Anca D. Farcas, Ioana Roman, Bogdan Sevastre , Denisa Hathazi , Florina Scurtu, Grigore Damian, Radu Silaghi-Dumitrescu, In vivo evaluation of hemerythrin-based oxygen carriers: Similarities with hemoglobin-based counterparts, International Journal of Biological Macromolecules 107 (2018) 1422–1427
12. Cristina Bischin, Augustin Mot, Andrei Stefancu, Nicolae Leopold, Denisa Hathazi, **Grigore Damian**, Radu Silaghi-Dumitrescu, (2017) Chlorite reactivity with myoglobin: Analogy with peroxide and nitrite chemistry? Journal of Inorganic Biochemistry, vol. 172 pp. 122–128, <https://doi.org/10.1016/j.jinorgbio.2017.04.017>
13. Hanganu, D., Benedec, D., Vlase, L., Olah, N., Damian, G., Silaghi-Dumitrescu, R., Moţ, A.C.d, Toma, C.C, Polyphenolic profile and antioxidant and antibacterial activities from two trifolium species, Farmacia, Volume 65, Issue 3, 2017, Pages 449-453
14. Damian, G., Andreea, T., Irina Anca, P., Dorina Emilia, C., Electron Paramagnetic Resonance investigations of ultraviolet irradiated prednisone, 6th IEEE International Conference on E-Health and Bioengineering, EHB 2017, Article number 7995529, Pages 737-740

15. Toma, V.Al., Farcaș, A.D., Roman, I., Sevastre, B., Hathazi, D., Scurtu, F., **Damian, G.**, Silaghi-Dumitrescu, R., (2016), Comparative in vivo effects of hemoglobin-based oxygen carriers (hboc) with varying prooxidant and physiological reactivity, *PlosOne*, 11(4), Article number e0153909
16. Augustin C Mot, Cristina Bischin, Bianca Muresan, Marcel Parvu, **Grigore Damian**, Laurian Vlase, Radu Silaghi-Dumitrescu, (2016), Antioxidant activity evaluation by physiologically relevant assays based on haemoglobin peroxidase activity and cytochrome c-induced oxidation of liposomes, *Natural Product Research*, 30 (11), pp. 1315-1319, DOI:10.1080/14786419.2015.1054824
17. Porteka, B., Mot, A., Cimpoi, C., Hosu, A., Bischin, C., Damian, G., Fodor, E., Dumitrescu, R., (2016) Selective Protective Effect of Antioxidant-rich Rumex acetosa Extracts, *Revista de Chimie*, 67(5), pp. 833-837
18. Bianca Mureșan, Claudia Cimpoi, Anamaria Hosu, Cristina Bischin, Emese Gal, **Grigore Damian**, Eva Fischer-Fodor, Radu Silaghi-Dumitrescu, (2015) Antioxidant content in Romanian, traditional distilled alcoholic beverages, *Studia UBB Chemia*, LX, 2, Tom II, pp.355-370
19. Kakes, M., Cioloboc, D., Tomsa, A.-R., Silaghi-Dumitrescu, R., **Damian, G.**, (2015), Redox and ligand binding reactivity in iron and chromium - Substituted polyoxometalates, *Revue Roumaine de Chimie*, 60 (7-8), pp. 707-720
20. Augustin C. Mot, Cristina Bischin, **Grigore Damian**, Radu Silaghi-Dumitrescu, (2015), Antioxidant Activity Evaluation Involving Hemoglobin-Related Free Radical Reactivity, in „Advanced Protocols in Oxidative Stress III”, Donald Armstrong (Ed.), *Methods in Molecular Biology*, Volume 1208, 2015, pp 247-255, ISBN: 978-1-4939-1440-1, Doi: 10.1007/978-1-4939-1441-8_18
21. Cristina Bischin, Camelia Tusan, Agota Bartok, Raluca Septelean, **Grigore Damian** & Radu Silaghi-Dumitrescu, (2015), Evaluation of the Biochemical Effects of Silyl-Phosphaalkenes on Oxidative and Nitrosative Stress Pathways Involving Metallocenters, *Phosphorus, Sulfur, and Silicon and the Related Elements*, 190(3), 292-299, DOI:10.1080/10426507.2014.884090
22. Denisa Hathazi, Sonia Diana Mahuț, Florina-Violeta Scurtu, Cristina Bischin, Corina Stanciu, Amr Ali Attia, **Grigore Damian**, Radu Silaghi-Dumitrescu, (2014), Involvement of ferryl in the reaction between nitrite and the oxy forms of globins, *JBIC Journal of Biological Inorganic Chemistry*, 19(7), 1233-1239
23. Daniela Benedec, Iliora Oniga, Bianca Muresan, Augustin C. Mot, **Grigore Damian**, Adriana Nistor, Radu Silaghi-Dumitrescu, Daniela Hanganu, Mihaela Duma, Laurian Vlase, (2014), Contrast between Water- and Ethanol-Based Antioxidant Assays: Aspen (*Populus tremula*) and Black Poplar (*Populus nigra*) Extracts as a Case Study, *Journal of Food Quality*, 37(4), 259-267, doi: 10.1111/jfq.12090
24. Laurian Vlase, Daniela Benedec, Daniela Hanganu, **Grigore Damian**, Ioan Csillag, Bogdan Sevastre, Augustin C. Mot, Radu Silaghi-Dumitrescu and Ioan Tilea (2014), Evaluation of Antioxidant and Antimicrobial Activities and Phenolic Profile for *Hyssopus officinalis*, *Ocimum basilicum* and *Teucrium chamaedrys*, *Molecules*, 19(5), 5490-5507; doi:10.3390/molecules19055490
25. Hathazi, D., Mot, A.C., Vaida, A., Scurtu, F., Lupan, I., Fischer-Fodor, E., **Damian, G.**, Kurtz, D.M., Silaghi-Dumitrescu, R., (2014), Oxidative protection of hemoglobin and hemerythrin by cross-linking with a nonheme iron peroxidase: Potentially improved oxygen carriers for use in blood substitutes, *Biomacromolecules* 15(5), 1920-1927, DOI:10.1021/bm5004256,
26. Istvan Mihaly Takacs, Augustin Mot, Radu Silaghi-Dumitrescu, **Grigore Damian** (2014), EPR investigation of libration motion of spin labeled hemerythrin, *Journal of Molecular Structure*, 1073, (18–23) <http://dx.doi.org/10.1016/j.molstruc.2014.01.074>
27. Luiza Găină, Ioana Torje, Emese Gal, Alexandru Lupan, Cristina Bischin, Radu Silaghi-Dumitrescu, **Grigore Damian**, Peter Lönnecke, Castelia Cristea, Luminița Silaghi-Dumitrescu, (2014) Microwave assisted synthesis, photophysical and redox properties of (phenothiazinyl)vinyl-pyridinium dyes, *Dyes and Pigments*, 102, 315-325, DOI:10.1016/j.dyepig.2013.10.044
28. Augustin Cătălin Moț, Cristina Coman, Carmen Miron, **Grigore Damian**, Costel, Sarbu, Radu Silaghi-Dumitrescu (2014), An assay for pro-oxidant reactivity based on phenoxyl radicals generated by Laccase, *Food Chemistry*, 143, 214-222, <http://dx.doi.org/10.1016/j.foodchem.2013.07.128>
29. Takacs IM, Mot A, Silaghi-Dumitrescu R, **Damian G.** (2013) Study of Mobility Hemoglobin Side Chains by Spin Labeled EPR Spectroscopy, *Studia UBB Physica*, Vol 58 (LVIII), 1:49-58.
30. Bensouici, A. ;Ayadi, M.;Iosin, M. ; **Damian, G.** ;Plaza, J.L., Astilean, S.; Sebais, M. ,(2013), Chemical decomposition of CdTe and CdBr2 dopants in KBr, *15th International Conference on Transparent Optical Networks (ICTON 2013)*, DOI:10.1109/ICTON.2013.6602899, p. 1-3
31. Pompei Bolfa, Raluca Vidrighinescu, Andrei Petruta, Dan Dezmirean, Laura Stan, Laurian Vlase, Grigore Damian, Cornel Catoi, Adriana Filip, Simona Clichici,(2013), Photoprotective effects of Romanian propolis on skin of mice exposed to UVB irradiation, *Food and Chemical Toxicology*, 62, 329-342
32. Delia Marcu, **Grigore Damian**, Constantin Cosma and Victoria Cristea, (2013), Gamma radiation effects on seed germination, growth and pigment content, and ESR study of induced free radicals in maize (*Zea mays*), *Journal of Biological Physics*, 39(4) 625-634, doi: 10.1007/s10867-013-9322-z

33. Daniela Benedec, Laurian Vlase, Iliora Oniga, Augustin C. Mot, Grigore Damian, Daniela Hanganu, Mihaela Duma and Radu Silaghi-Dumitrescu, (2013), Polyphenolic Composition, Antioxidant and Antibacterial Activities for Two Romanian Subspecies of *Achillea distans* Waldst. et Kit. ex Willd, *Molecules*, 18(8), 8725-8739; doi:10.3390/molecules18088725
34. Istvan Mihaly Takacs, Augustin Mot, Radu Silaghi-Dumitrescu, Grigore Damian, (2013) Site directed spin labeling Hemerythrin and hemoglobin, *Studia UBB, seria Chemia*, 58(2), pp. 61-69,
35. Jean de Dieu Tamokou, Jean Rodolphe Chouna, Eva Fischer-Fodor, Gabriela Chereches, Otilia Barbos, Grigore Damian, Daniela Benedec, Mihaela Duma, Alango Pépin Nkeng Efouet, Hippolyte Kamdem Wabo, Jules Roger Kuate, Augustin Mot, Radu Silaghi-Dumitrescu (2013), Anticancer and Antimicrobial Activities of Some Antioxidant-Rich Cameroonian Medicinal Plants, *PLoS ONE*, e55880, 8(2), pp. 1-14
36. C. Ivaşcu, I.B. Cozar, L. Dărăban, **G.Damian**, (2013) Spectroscopic investigation of P₂O₅-CdO-Li₂O glass system, *Journal of Noncrystalline Solids*, 359, pp 60-64, <http://dx.doi.org/10.1016/j.jnoncrysol.2012.10.008>
37. Todica, M. , Udrescu, L., **Damian, G.**, Astilean, S. (2013), Spectroscopic investigation of PVA-TiO₂ membranes gamma irradiated, *Journal of Molecular Structure*, 1044, pp 328–330, <http://dx.doi.org/10.1016/j.molstruc.2012.12.006>
38. Augustin C. Moţ, Marcel Pârnu, **Grigore Damian**, Zsuzsanna Darula, Katalin F. Medzihradzsky, Balazs Brem, Radu Silaghi-Dumitrescu (2012), A “yellow” laccase with “blue” spectroscopic features, from *Sclerotinia sclerotiorum*, *Process Biochemistry*, 47(6), pp. 968-975, doi.org/10.1016/j.procbio.2012.03.006
39. Daniela Cioloboc, Adrian-Raul Tomşa, **Grigore Damian**, Radu Silaghi-Dumitrescu (2012), High spin to low spin change induced by reductive chemistry with iron-substituted Dawson polyoxometalate, *Inorganic Chemistry Communications*, doi: 10.1016/j.inoche.2012.02.019
40. Laura Bolojan, István Mihály Takács, Vasile Miclaus and **Grigore Damian** (2012). EPR study of superoxide radicals from potassium superoxide. *Applied Magnetic Resonance*, 42(3), pp. 333-341, DOI: 10.1007/s00723-011-0310-9
41. Nicoleta Simona Vedeanu, Dana Alina Magdas, Laura Bolojan and **Grigore Damian** (2012). Antioxidant potential and authenticity of some commercial fruit juices studied by EPR and IRMS, *Chemical Papers*, 66(6), pp. 612-616, DOI: 10.2478/s11696-011-0115-1
42. Augustin C. Mot, Sergei A. Syrbu, Sergei V. Makarov, **Grigore Damian**, Radu Silaghi-Dumitrescu (2012). Axial ligation in water-soluble copper porphyrinates: contrasts between EPR and UV–vis. *Inorganic Chemistry Communications*, 18, pp. 1-3, doi.org/10.1016/j.inoche.2011.12.030
43. Dana Alina Magdas, Nicoleta Simon Vedeanu, Laura Bolojan, Romulus Puscas, **Grigore Damian** (2011). Comparative study between single strength juice and commercial natural juices by IRMS and EPR. *Studia Universitatis Babeş-Bolyai Chemia*, LVI, 2 , pp. 19 – 27.
44. Doina Prodan, Laura Silaghi-Dumitrescu, Prejmean Cristina, Radu Silaghi-Dumitrescu, Laura Bolojan, **Grigore Damian** (2011), Evaluation of Free Radical Concentration in Some New Dental Composite Materials by ESR Spectroscopy. *Studia Univrsitatis Babeş—Bolyai, Chemia*, Volume 56 (LVI), pp. 201-206.
45. Bianca Iacob, Florina Deac, Daniela Cioloboc, Grigore Damian, Radu Silaghi-Dumitrescu (2011), Hemoglobin-albumin crosslinked copolymers: reduced prooxidant reactivity. *Artificial Cells, Blood Substitutes and Biotechnology*, 39(5), pp. 293-297, doi:10.3109/10731199.2011.563362
46. Cristina Bischin, Florina Deac, Radu Silaghi-Dumitrescu, Jonathan A. R. Worrall, Badri S. Rajagopal, **Grigore Damian** and Chris E. Cooper (2011), Ascorbate peroxidase activity of cytochrome c, *Free Radical Research*, 45(4), pp. 439-444
47. Dana Alina Magdas, Nicoleta Simona Vedeanu, Laura Bolojan, Romulus Puscas and **Grigore Damian** (2011), Comparative study between single strength juice and commercial natural juice by IRMS and EPR, *Studia UBB, Chemia*, LVI, 2, pp 19-27
48. Deac Florina, Iacob Bianca, Eva Fischer-Fodor, **Grigore Damian**, Radu Silaghi-Dumitrescu (2011), Derivatization of hemoglobin with periodate-generated reticulation agents: evaluation of oxidative reactivity for potential blood substitutes, *Journal of Biochemistry*, 149 (1), pp. 75-82.
49. Anamaria Hosu, Claudia Cimpoi, Vasile Miclaus, **Grigore Damian**, Irina Tarsiche, Nastasia Pop (2010), Influence of Intermittent Heating during Maceration on the Antioxidant Capacity of some Grape Seeds and Skins, *Not. Bot. Hort. Agrobot. Cluj* 38 (1), pp. 41-43
50. Augustin Mot, Kis Zoltan, Dimitri A. Svistunenکو, **Grigore Damian**, Radu Silaghi-Dumitrescu, Sergei V. Makarov (2010), 'Super-reduced' iron under physiologically-relevant conditions, *Dalton Trans*, 39, pp.1464-1466
51. Augustin-Catalin Mot, **Grigore Damian**, Costel Sarbu, Radu Silaghi-Dumitrescu (2009), Redox reactivity in propolis: direct detection of free radicals in basic medium and interaction with hemoglobin, *Redox Report*, 14(6), pp. 267-274(8)
52. Adrian-Raul Tomşa, Daniela Cioloboc, Ana Maria Todea, Radu Silaghi-Dumitrescu, **Grigore Damian**, and Mariana Rusu (2009), Synthesis, spectroscopic and electrochemical characterization of new Chromium (III) substituted Dawson polyoxometalate, *Studia Universitatis Babeş-Bolyai, Chemia* , LIV, 4, pp. 95-105
53. Dina Petrisor, **Grigore Damian**, Simion Simon, Ana Maria Hosu, Vasile Miclaus (2008), Antioxidant activity, of some types of white wines and juices investigated by EPR spectroscopy, *Modern Physics Letters B*, 22(27), pp. 2689-2698
54. Dina Petrisor, **Grigore Damian**, Simion Simon (2008), Gamma-irradiated Extravit M nutritive supplement studied by Electron Paramagnetic Resonance Spectroscopy, *Radiation Physics and Chemistry*, 77(4), pp.463–466
55. Cimpoi, C., Hosu, A., **Damian, G.**, Miclaus, V., (2007): EPR and spectrophotometric investigation of the antioxidant capacity of some romanian grapes and wines. *European Biophysics Journal with Biophysics Letters*, 36, pp.171-172.

56. S. Cavalu, S. Cîntă Pînzaru, N. Peica, **G. Damian**, W. Kiefer (2007), Adsorption behavior of hyaluronidase onto silver nanoparticles and PMMA bone substitute, *Journal of Optoelectronics and Advanced Materials*, vol.9.,nr.3, pp. 689-692
57. I. D. Postescu, C. Tatomir, G. Chereches, I. Brie, **G. Damian**, D. Petrisor, A-M. Hosu, V. Miclaus, A. Pop (2007), Spectroscopic characterization of some grape extracts with potential role in tumor growth inhibition, *Journal of Optoelectronics and Advanced Materials*, vol.9.,nr.3, pp. 564-567
58. I. Bratu, M. T. Cotisel, **G. Damian**, A. Mocanu, (2007) Secondary structure analysis of barley aleurone holoprotein by FTIR spectroscopy, *Journal of Optoelectronics and Advanced Materials*, vol.9.,nr.3, pp. 675-677
59. **Grigore Damian**, Dina Petrisor, Vasile Miclaus (2007), Free Radicals Detection by ESR PBN Spin-Trap Technique, *Journal of Optoelectronics and Advanced Materials*, vol.9.,nr.4, pp.1010-1013
60. **G. Damian**, G. Schmutzer, D. Petrisor (2007), Investigation of light-induced free radicals in nifedipine, *Journal of Optoelectronics and Advanced Materials*, vol.9.,nr.3, pp. 680-683
61. Cozar, D. A. Magdas, L. Nasdala, I. Ardelean, **G. Damian**, (2006) Raman Spectroscopic Study of some lead phosphate glasses with tungsten ions, *Journal of Non-Crystalline Solids*, 352, 28-29, 3121-3125
62. Cimpoi, C., Casoni, D., Hosu, A., Miclaus, V., **Damian, G.**, Hodisan, T., (2005): Separation and Identification of Eight Hydrophilic Vitamins Using New TLC Method and Raman Spectroscopy. *J. Liq. Chromatogr. Related Techn.* 28, 16, 2551-2559
63. **G.Damian**, S.Cavalu, (2005) Comparative study of amide I and III bands of ovalbumin and bovine serum albumin by FTIR Spectroscopy, *Asian Chemistry Letters*, 91-2, 3-8
64. T.Jurca, S.Cavalu, **G.Damian**, F.Banica (2004) ATR FT-IR studies of transitional nicotinamide *Rev. Chim.* 55, 7, 492-495
65. **G.Damian**, (2003) EPR study of free radicals of irradiated Metoclopramid and Odansetron, *Talanta*, 60, 923-927
66. S.Cavalu, **G.Damian** (2003), Rotational correlation times of 3-carbamoyl-2,2,5,5-tetramethyl-3-pyrrolin-1-yloxy spin label with respect to heme and nonheme proteins, *Biomacromolecules*, 4(6), pp.1630-1635
67. C.Cimpoi, V.Micaus, **G.Damian**, M.Puia, D.Casoni, C.Bele, T.Hodisan (2003), Identification of new phthalazine derivatives by HPTLC-FTIR and characterization of their separation using some molecular properties, *J. Liq. Chromatography & Related Technologies*, 26(16),pp. 2687-2696
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